

DIN PN 16- 40
ANSI 150 - 300

— ND 15 - 300mm
— 1/2" - 12"

FY 33/35

Application

Suitable for all kinds of liquid or gaseous fluids in horizontal pipelines as well as in vertical lines if flow direction is from top to bottom.

Main Features

- Small resistance to flow
- No direct impact against screen
- Easy drainage of residues
- Large-capacity collector

Design

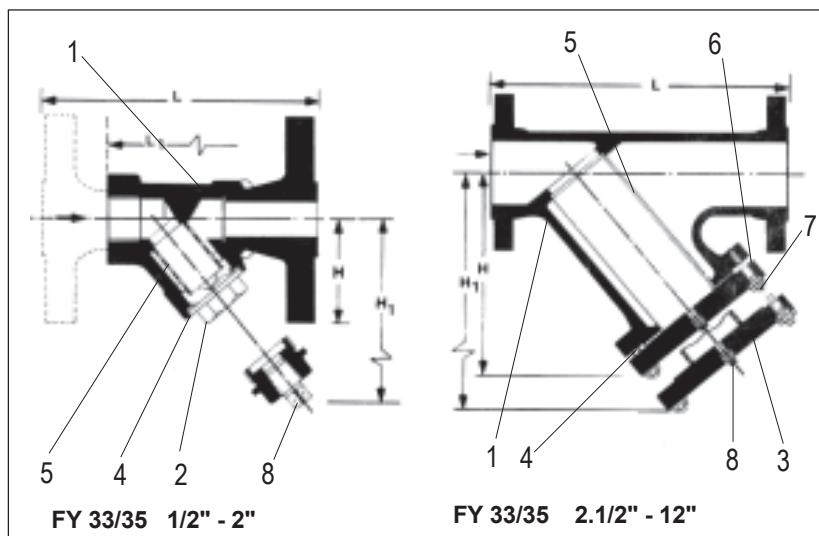
Screwed or flanged body. Screen with standard perforation. Screwed or bolted screen retainer.

Optional

Upon request, screens with other sizes of perforation are available. Special blowdown plug can be supplied. Special execution of strainers upon request. All special and optional items are subject to price increase.

Description

The strainer body is of sound construction and its shape, which offers only a minimum of resistance to the flow, ensures perfect passage of the fluid. The design of this strainer avoids the direct impact of dirt-ridden fluids against the screen and in addition allows easy drainage of residues accumulated in a large-capacity collector. The screen is placed between the body and the retainer. The screen thread of the retainer is protected by a synthetic lubricant. Standard perforations of screen as per table below.



Notes:

- 1 - we can supply filters FY 33/35 in the gauge of 3/8 " .
- 2 - the filters FY 33/35 even gauge of 1" are wrought and they assist to the class of pressure 600 #.
- 3 - we can supply filters FY 33/35 in the gauges of 3/8", 1/2" e 3/4 " to assist to the class of pressure 900 #.
- 4 - it joins body / it covers class 300 even #- hydraulic cardboard above class 300 #- steel inox.

Table of physical data

Model		FY 33	FY 35
ND	mm inch	15 a 300 1/2" a 12"	15 a 300 1/2" a 12"
Maximum operating pressur. (bar psi)		40 35	28 21
Maximum temperate (°C)		120 200	300 400
Materials	Body	1/2" - 2" 2.1/2" - 12"	ASTM A-105 ASTM A-216 WCB
	Cover	1/2" - 2" 2.1/2" - 12"	ASTM A-105 ASTM A-216 WCB
	Screen		AISI 304 AISI 316
Connections	1/2" - 2"	Threaded BSP/NPT Welded SW Flanged DIN PN 10/16 ou 25/40 Flanged ANSI 150 ou 300	
	2.1/2"- 12"	Flanged DIN PN 10/16 ou 25/40 Flanged ANSI 150 ou 300	

Nº	Denomination	ND 15-50 1/2"-2"	ND 65-300 2.1/2"-12"	Nº	Denomination	ND 15-50 1/2"-2"	ND 65-300 2.1/2"-12"
1	Body	01	01	5	Screen	01	01
2	Cover Threaded	01	01	6	Stud Bolt	**	**
3	Cover flanged	—	—	7	Nut	**	**
4	Body cover gasket	01*	01*	8	Drain plug	01*	01*

* Recommended spare parts

** Amount according to norm, nominal diameter (ND) and nominal pressure (PN)

Table of measurements

ND	mm inch	10 3/8*	15 1/2	20 3/4	25 1	40 1.1/2	50 2	65 2.1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
Measures	L1	65		75	90	120	150	—	—	—	—	—	—	—	—
	L	130		150	160	200	230	290	310	350	425	480	600	730	850
	H	48		55	63	89	98	210	220	245	320	345	375	450	549
	H1	76		87	103	154	158	340	375	395	525	556	600	760	990
Standard Screen perforation	mm mesh	0,5 40	0,8 20				1,2 16				1,6 12				
Blowdown plug		1/4"			3/8"	1/2"	1.1/4"				2"				
Kvs		2,4	3,4	6,0	11,0	29,6	51,0	96,0	146,0	229,0	357,0	516,0	917,0	1432,4	2062,0
Shape factor ()**		2,5													
Weight aprox. (kg)	Threaded or welded	—	0,9	1,4	2,2	5,4	5,6	—	—	—	—	—	—	—	—
	Flanged	1,4	1,4	3,2	4,0	8,4	10,0	19	25	43	51	77	121	192	252

* Under request

** This shape factor is only been worth when the area open of the screen is the same or superior to the double of the area of the pipe.

Pressure loss

The pressure loss in filters FY with clean screen, can be stipulated being applied the following formula:

$$\Delta p = \zeta \cdot \rho \cdot \frac{\omega^2}{2g} \cdot 10^{-4}$$

where

ζ = Form factor (resistance coefficient to the flow)

ρ = Specific weigh of the fluid (kg/m3)

ω = Fluid speed (m/s)

g = Acceleration of the gravity (9,81m / s2)

Δp = pressure loss (Kg/cm2)

Data for sizing

Please indicate the nature of the fluid, pressure, temperature of service and nominal diameter, as well as, the desired connections.

∅

Standard specification

Pipeline strainer y type
 model FY.....from ASCA
 as per PR-11.10.10-I
 Connection.....
 as per norm.....
 Pressure.....
 Nominal diameter.....
 Optionals.....

ASCA EQUIPAMENTOS INDUSTRIAIS LTDA.

R. Fernandes da Cunha, 202- Vigário Geral - Rio de Janeiro - RJ - Brazil
 CEP 21241-300 - Tel.: (21) 2472-6900 - Fax (21) 3014-7622
 e-mail: office@asca.com.br - homepage: http://www.asca.com.br

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